

EC - MMS - 4820 - H

Machine Management System

Description

MMS (Machine management System) coding card with CANbus and RS485 interface and built-in advanced safety and fault-detection features for integrated control of Mobile equipment functions

Operation

The MMS-4820 can be lodged inside any remote control box or panel to make command signals compatible with CANbus networks or RS485 serial lines

It can be used as a stand-alone controller for TECNORD's Multidrom MLT/FD5 CANbus-configured electro-hydraulic proportional actuators

It can be used as a remote coding card for RS485 serial line connection to other MMS electronic units like Tecnord's Mod. MMS-2020

Features

- Supply line is protected against reversed polarity and load dump.
- Inputs are protected against short circuits to GND and supply.
- Outputs are protected against short circuits, reversed polarity, over-current and over-temperature.
- 2-wires RS485 serial interface
- 2-wires CAN-bus interface
- Due to microprocessor redundancy, it is especially designed for applications where high safety requirements are present.



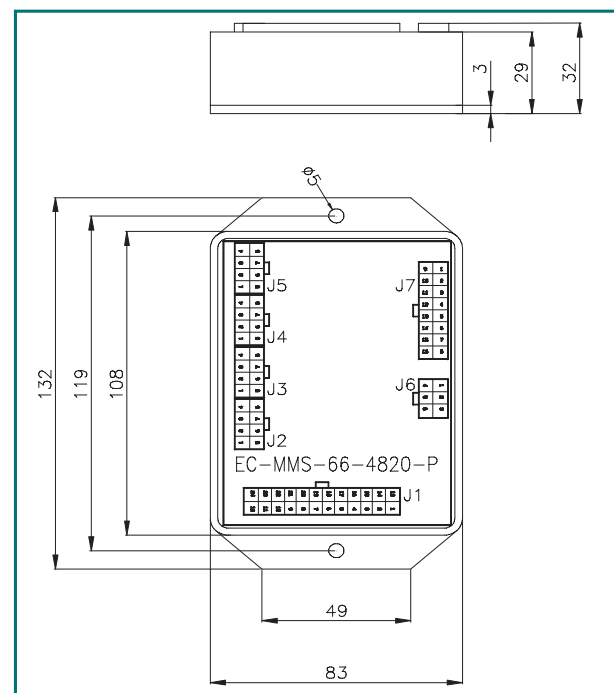
Specifications

- Operating voltage: 8.5-40 Vdc
- Max current consumption: 0.5 A (no load applied)
- Operating temperature: -25 / +85 °C
- Degree of protection: IP54
- Analog inputs: 16 x 0-5 V
- Input impedance: 100 kOhm
- Typical ctrl pot resistance: 1 - 10 kOhm
- Digital inputs: 32
- Resolution: 10 bit
- High Side power outputs: 4 (3.5A max each)
- Max current load on all outputs: 5 A
- High side signal outputs: 16 (0.7A max each)
- PWM outputs channels: 1 x dual-coil prop. valves
- Current output range (PWM): 100-1500 mA
- PWM dither frequency: 75-250 Hz (adjustable)

Applications

- 12 Vdc and 24 Vdc systems
- Control panel management
- Field - adjustable applications
- Closed loop systems with electro-hydraulic digital actuators
- Two or more MMS boards can be interconnected by means of 2-wires RS485 serial lines or CAN-bus where rotating joints or cable reels are installed

Dimensions

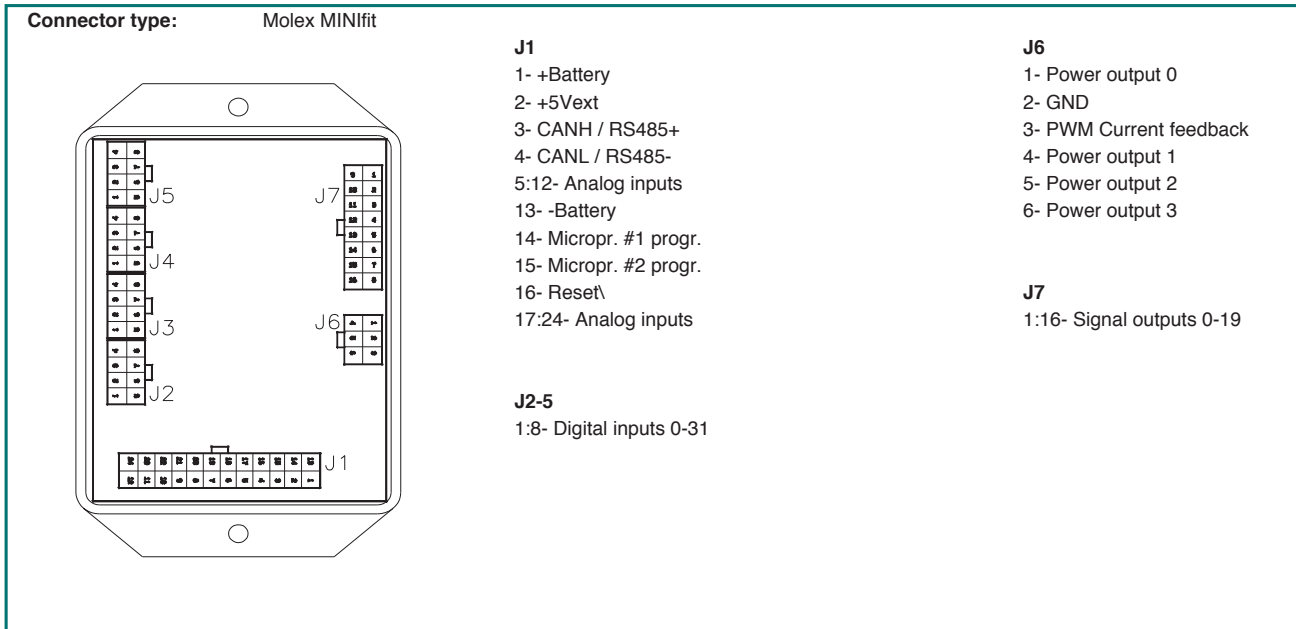


WARNING: The specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

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Circuit board pinout - Wiring diagram

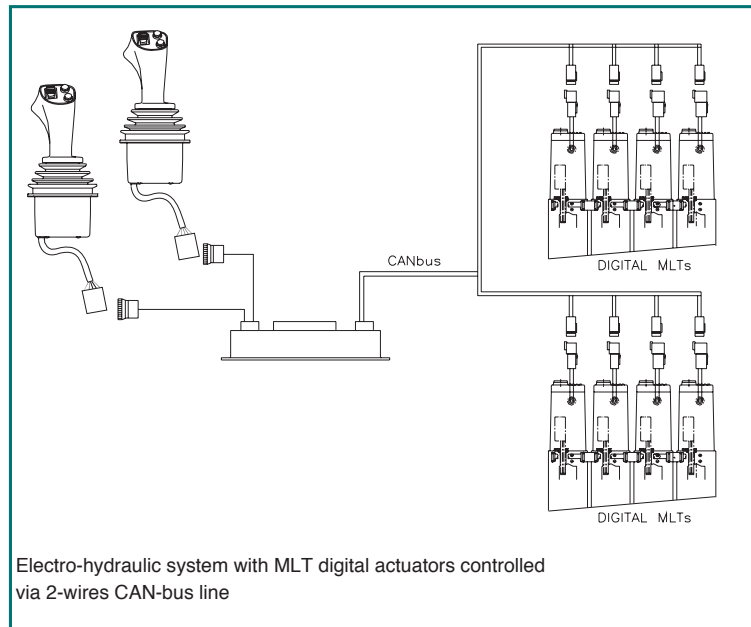


Adjustments

Adjustments through RS485 serial line and CAN-bus interface

Ask for: PC configuration tools available

Application example



Ordering Information:

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4820 = 48 inputs - 20 outputs

H = potted plastic Housing for panel mounting

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